

## ABSTRACT OF THE DISCLOSURE

An image forming apparatus including a latent carrier and a charging device. The charging device is configured to charge a surface of the latent carrier. An exposure device is configured to expose a surface of the latent carrier for forming a latent image thereon. A transfer device is provided to transfer a developed toner image on the latent carrier to a recording medium. The image forming apparatus includes a developing device having a pooling portion configured to pool a two-component developer and an agitating device configured to agitate developer in the pool portion. A developer carrier replenishes developer to the latent carrier. A first measurement device and a second measurement device are configured to measure developer characteristics wherein the first and second measurement devices compare their respective outputs to measure a deterioration rate of the developer.